See Learning in a Whole New Light

American Astronautical Society
41st Goddard Memorial Symposium

Dr. Clifford Houston
Deputy Associate Administrator for Education

March 26, 2003

Agency Mission

Inspire & Motivate

Engage the Public

Blueprint for Education

"In this great land called America, no child will be left behind."

- President George W. Bush

National Science Foundation

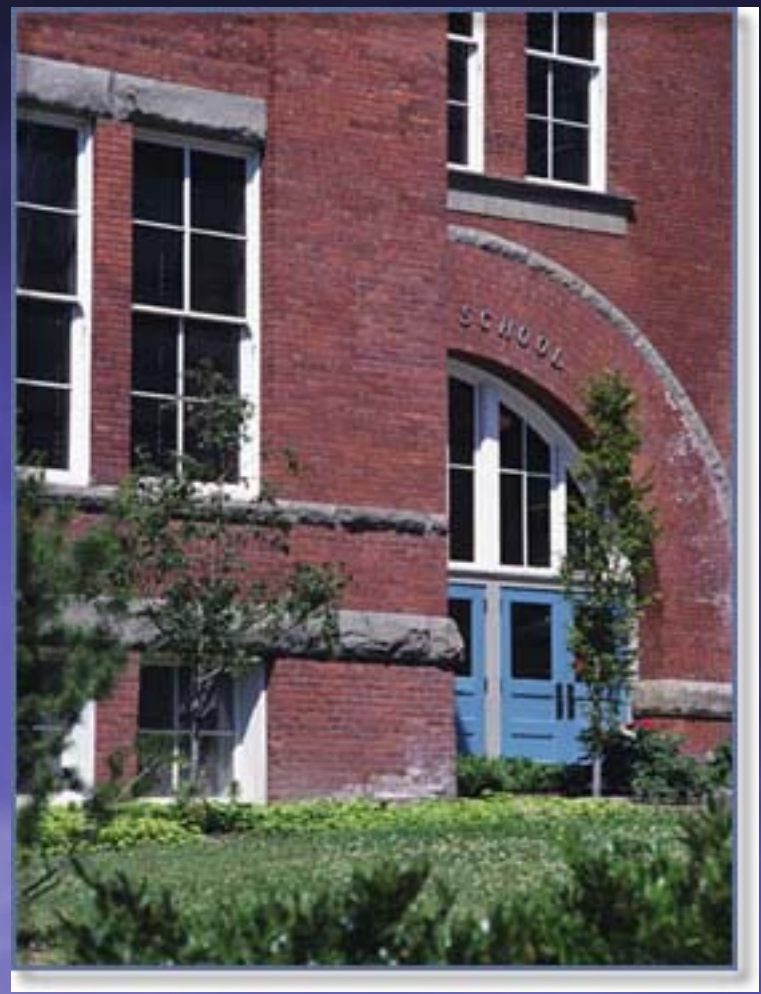
No Child Left Behind
www.NoChildLeftBehind.gov

United States Department of Education

National Aeronautics and Space Administration

Education as a Core Mission

Our Nation's education system is failing to equip our children with essential mathematics and science skills



Education as a Core Mission

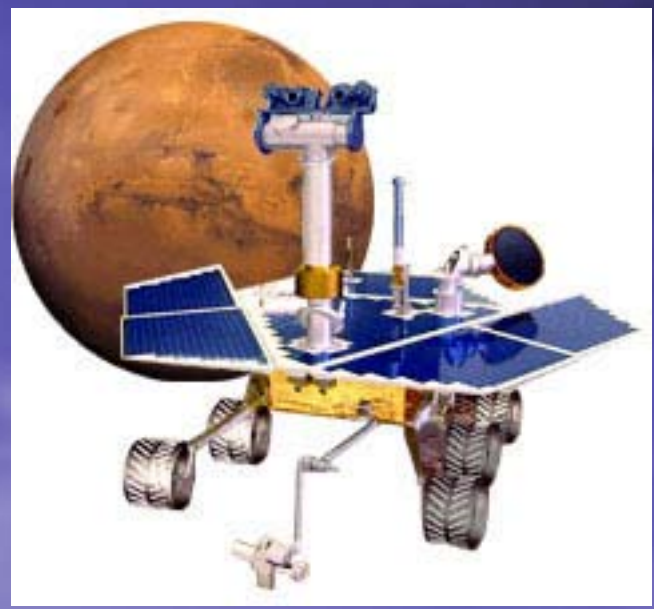
Our Nation fails to produce enough Scientists, Mathematics, Engineers and Technologists needed to support National Economic and Security Needs

Education as a Core Mission

NASA is uniquely positioned to be able to positively effect an increase in the numbers of scientists, mathematicians, engineers and technologists

Education as a Core Mission

NASA can and must leverage its unique Enterprise activities to "Inspire the Next Generation of Explorers" like it has not done before.



NASA Education Priorities

Expand STEM **pipeline**
(Pre-college)

Increase STEM **workforce**
(Post-secondary)

NASA Education Enterprise

NASA Education Goals

1) MOTIVATE STUDENTS TO PURSUE CAREERS IN SCIENCE, MATHEMATICS, ENGINEERING, AND TECHNOLOGY

3) ENSURE THAT WE ARE INVESTING THE TAXPAYER'S RESOURCES WISELY

2) PROVIDE EDUCATORS WITH UNIQUE TEACHING TOOLS AND COMPELLING TEACHING EXPERIENCES

4) ENGAGE MINORITY & UNDERREPRESENTED STUDENTS, EDUCATORS, AND RESEARCHERS IN NASA'S EDUCATION PROGRAM

Enterprise Organization

Education Advisory Council

Office of Education ♦ Code N

Associate Administrator

Deputy Associate Administrator

Executive Officer
Secretary

Senior Policy Advisor

Liaisons:
- Public Affairs
- Legislative Affairs
- Legal
- Equal Opportunity
- Human Resources

AAA for Org Effectiveness and Accountability

DAA for Education Programs

Educator Astronaut Office

Technology & Products Office

Center Education Programs

Elementary & Secondary Education Division

Education Support (Informal) Education Division

Higher Education Division

Minority University Programs

Earth Science Education Programs

Space Science Education Programs

Biological & Physical Research Education Programs

Aerospace Technology Education Programs

Space Flight Education Programs

New Initiatives for FY03

Four Educational Programs

Explorer Schools

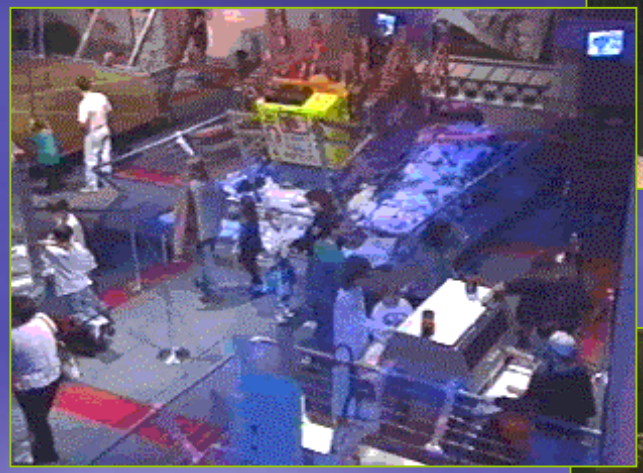
Explorer Institutes

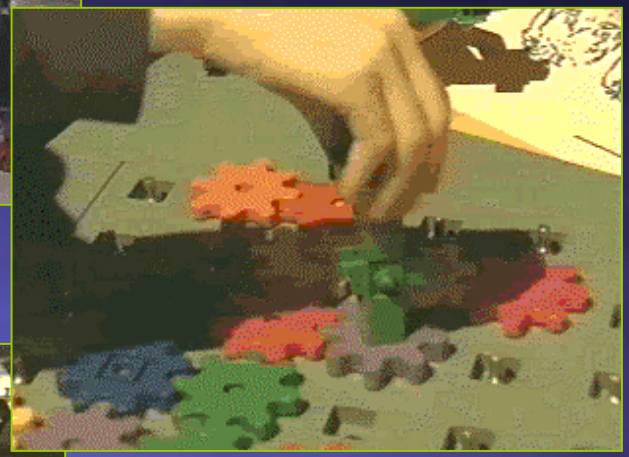
Science and Technology Scholarship Program

Educator Astronaut Program

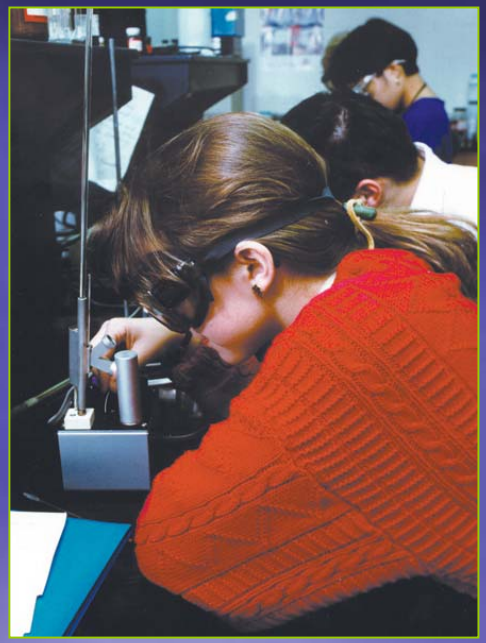
NASA Explorer Schools

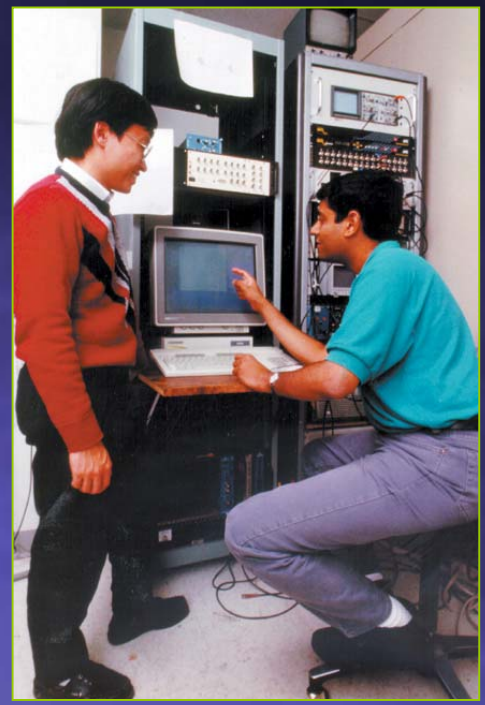
NASA Explorer Institutes





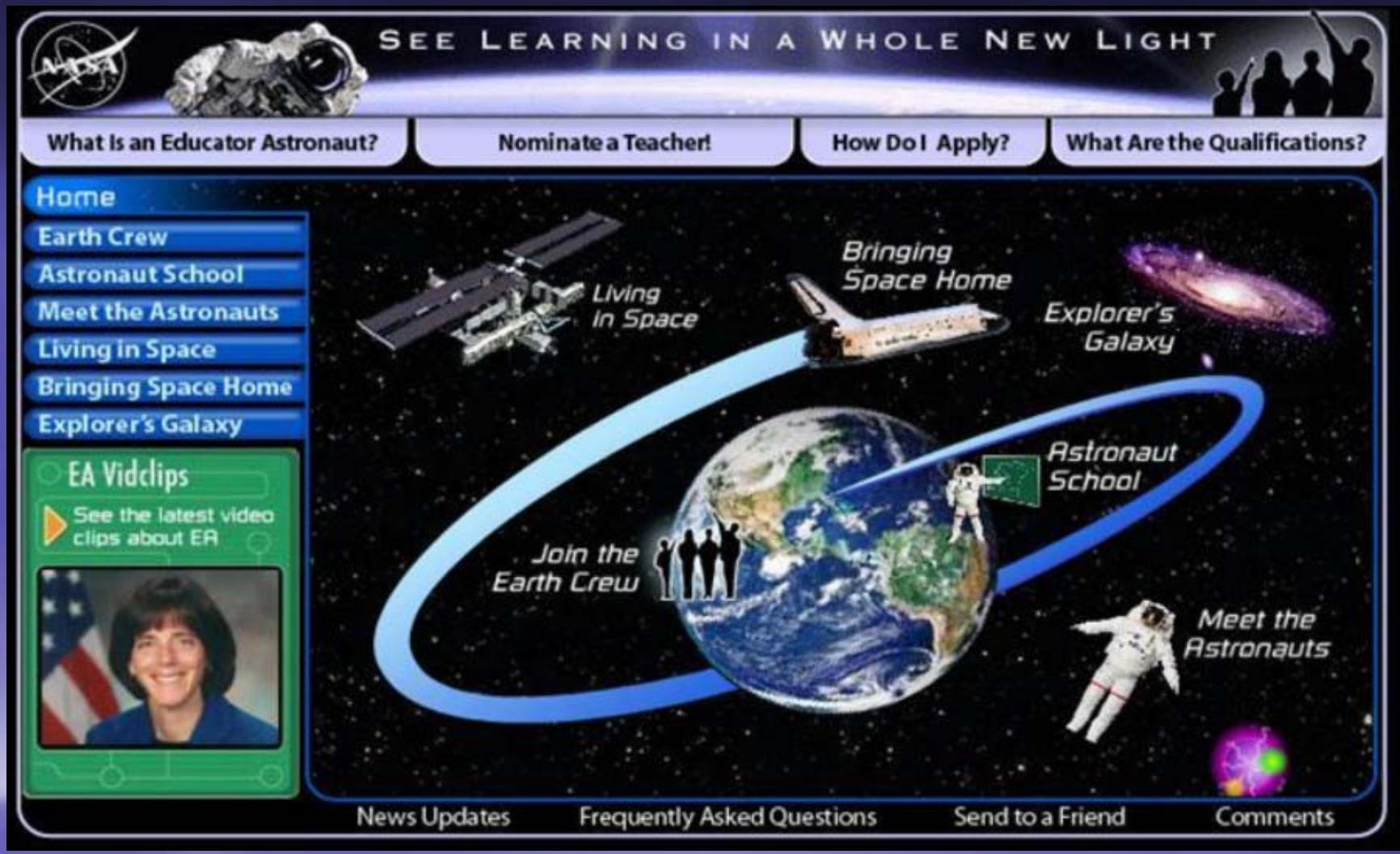
Science and Technology Scholarship Program





Educator Astronaut Program

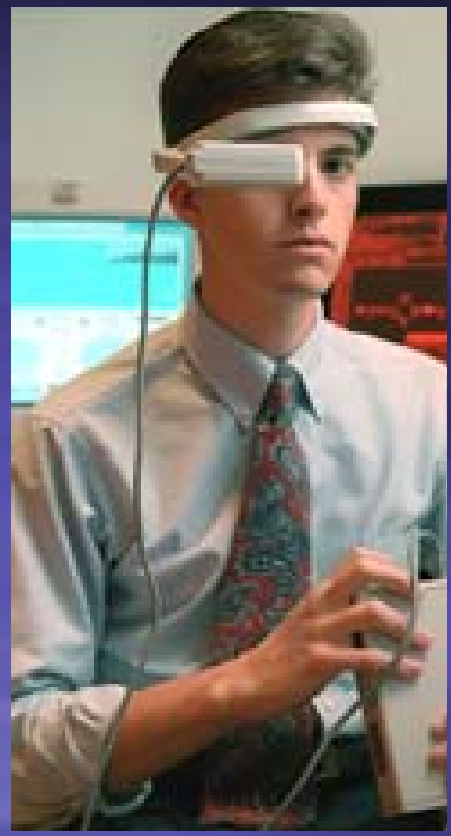
edspace.nasa.gov



Education as a Core Mission

Criteria for Educational Programs

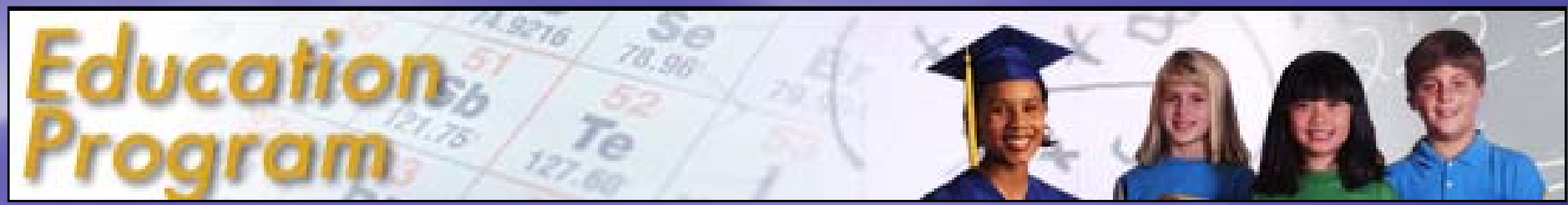
1) Customer Focused
2) NASA Content
3) NASA pipeline
4) Diversity
5) Evaluation
6) Partnerships/sustainability



AAS Assistance

How can you help Code N?

- Distribute information concerning NASA programs
- Establish local efforts for National campaigns
- Collaborate with local Informal Education communities
- Continue programs that address the STEM pipeline shortage



NASA
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